1.0 EXECUTIVE SUMMARY

Two underground storage tanks at Building 837, Hill Air Force Base (HAFB) failed the tank tightness test required to obtain a certificate of compliance from the State of Utah. Both tanks were found to be leaking from Hersey tank gauges attached to each underground storage tank (UST) system. The leaks were reported to the Division (formerly Bureau) of Environmental Response and Remediation (DERR). This site characterization was initiated to evaluate the extent of potential petroleum contamination, if any, that may be present at the site. The site is identified by the Utah Department of Environmental Quality (UDEQ) as leaking underground storage tank site AGVF.

The information and data acquired during this site investigation and characterization indicate that soil contamination is not present in soils tested around the tank sites and that minor amounts of dissolved petroleum constituents may be locally present in the groundwater near the tank sites. A total of five borings were drilled and sampled; one monitoring well was completed in one of the borings and the remaining borings were completed with soil vapor probes. Total petroleum hydrocarbon, benzene, ethylbenzene, toluene, and xylenes were not detected in the soil samples at the analytical method detection limit. Total petroleum hydrocarbon was detected at 1.2 ppm, toluene was detected at 0.003 ppm, and total xylene was detected at 0.004 ppm in a sample of the groundwater. Benzene and ethylbenzene were not detected in the sample from the monitoring well.

Engineering-Science, Inc. was contracted by the Operational Contracting Office, Hill Air Force Base on behalf of Environmental Management Directorate to perform the site characterization. The status of the site is presented below in the format established by Federal rule Title 40 Code of Federal Regulations (40 CFR) Part 280 Subpart F and the UDEQ/HAFB Compliance Agreement.

2.0 INTRODUCTION

This abatement and site characterization report describes the results of a petroleum hydrocarbon contamination investigation of two leaking underground storage tanks (USTs) at Building 837, Hill Air Force Base (HAFB), Utah. The report has been prepared by Engineering-Science, Inc. (ES) for Environmental Management Directorate (EM), HAFB. The site is identified in the Department of Environmental Response and Remediation (DERR) records as leaking underground storage tank site AGVF. Hereafter, the site will be referred to in this report as site 837 (AGVF). The report presents the activities and results of the investigation required in Federal rule Title 40 Code of Federal Regulations Part 280 Subpart F (280.62-280.64), State rule R451-202, and the Utah Department of Environmental Quality (UDEQ)/HAFB Compliance Agreement.

The following sections describe the actions taken to comply with the above mention regulations and agreement and the UDEQ Remediation Schedule (RS) issued to HAFB. The report has been outlined to address each concern presented in the compliance agreement and RS. As a result of following the outline format, information is occasionally repeated. Section 1 provides the Executive Summary. Section 2 presents this Introduction. Section 3 discusses the abatement and site investigation activities. In Section 4, site characterization information is discussed. Section 5 presents conclusions and recommendations. A notice to interested parties